

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-4. (Canceled)

5. (Currently Amended) A display system comprising:

a light-emitting device comprising a plurality of pixels, each of said plurality of pixels having at least an EL (electro-luminescent) element;

a sensor for obtaining an information signal of an environment;

a CPU (central processing unit) for converting an electrical signal supplied from said sensor into a correction signal; **[[and]]**

a voltage changer for controlling a corrected potential based on said correction signal~~[[,]]~~; **and**

an EL driving power source connected to said voltage changer,

wherein said voltage changer is electrically connected to the EL element of each of the plurality of pixels via a switch. **[[, and]]**

~~wherein said switch is turned off during an addressing period and is turned on during a sustaining period.~~

6. (Original) A display system according to claim 5, wherein said information signal comprises a user's living-body information.

7. (Original) A display system according to claim 5, wherein said light-emitting device, said sensor, said CPU and said voltage changer are formed on a same substrate.

8. (Previously Presented) A display system according to claim 5, wherein said light-emitting device is an EL (electro-luminescent) display device.

9. (Previously Presented) A display system according to claim 5, wherein said display system is incorporated in one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, an image reproduction apparatus, a car audio equipment, and a personal computer.

10. (Currently Amended) A display system comprising:
a light-emitting device comprising a plurality of pixels, each of said plurality of pixels having:

at least an EL (electro-luminescent) element having two electrodes with an EL layer interposed therebetween;

a current control thin film transistor electrically connected to one of said two electrodes of said EL element; [[and]]

a voltage changer electrically connected to said EL element of each of said plurality of pixels via a switch; ~~, wherein said switch is turned off during an addressing period and is turned on during a sustaining period,~~ and

an EL driving power source connected to said voltage changer,
wherein a potential applied to the other of said two electrodes of said EL element is controlled based on an information signal of an environment.

11. (Original) A display system according to claim 10, wherein said information signal comprises a user's living-body information.

12. (Previously Presented) A display system according to claim 10, wherein said display system is incorporated in one selected from the group consisting of a video camera, a digital

camera, a head-mount display, a car navigation system, a portable telephone, an image reproduction apparatus, a car audio equipment, and a personal computer.

13. (Currently Amended) An active matrix display device comprising:
- a voltage changer;
- a sensor for obtaining an information signal of an environment; and
- a plurality of pixels, each of said plurality of pixels comprising:
- at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a gate insulating film interposed therebetween; and
- an EL (electro-luminescent) element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer,
- wherein:
- a potential applied to the one of said anode and said cathode that is not connected to said active layer is controlled based on said information signal of the environment by converting said information signal to a corrected potential,
- said voltage changer is electrically connected to said EL element of each of said plurality of pixels via a switch, and an EL driving power source is connected to said voltage changer.
- ~~said switch is turned off during an addressing period and is turned on during a sustaining period.~~

14. (Original) An active matrix display device according to claim 13, wherein said display device and said sensor are formed over a same substrate.

15. (Previously Presented) An active matrix display device according to claim 13, wherein said sensor comprises a CCD (charge-coupled device) or a photo-diode.

16. (Original) An active matrix display device according to claim 13, wherein said information signal comprises a user 's living-body information.

17. (Previously Presented) An active matrix display device according to claim 13, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, an image reproduction apparatus, a car audio equipment, and a personal computer.

18. (Currently Amended) An active matrix display device comprising:
a voltage changer;
a sensor for obtaining an information signal of an environment; and
a plurality of pixels, each of said plurality of pixels comprising:
at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a gate insulating film interposed therebetween; and

an EL (electro-luminescent) element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer;

wherein:

said information signal is converted to a corrected potential and said corrected potential is applied to the one of said anode and said cathode that is not connected to said active layer,

said voltage changer is electrically connected to said EL element of each of said plurality of pixels via a switch, and an EL driving power source is connected to said voltage changer.

~~said switch is turned off during an addressing period and is turned on during a sustaining period.~~

19. (Original) An active matrix display device according to claim 18, wherein said display device and said sensor are formed over a same substrate.

20. (Previously Presented) An active matrix display device according to claim 18, wherein said sensor comprises a CCD (charge-coupled device) or a photo-diode.

21. (Original) An active matrix display device according to claim 18, wherein said information signal comprises a user's living-body information.

22. (Previously Presented) An active matrix display device according to claim 18, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, an image reproduction apparatus, a car audio equipment, and a personal computer.

23. (Currently Amended) An active matrix display device comprising:

a voltage changer;

a sensor for obtaining an information signal of an environment; and

a plurality of pixels, each of said plurality of pixels comprising:

at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a gate insulating film interposed therebetween;

an EL (electro-luminescent) element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer; and

a CPU (central processing unit) for converting said information signal to a corrected signal,

wherein:

a corrected potential is applied to the one of said anode and said cathode that is not connected to said active layer based on said corrected signal,

said voltage changer is electrically connected to said EL element of each of said plurality of pixels via a switch, and an EL driving power source is connected to said voltage changer.
~~said switch is turned off during an addressing period and is turned on during a sustaining period.~~

24. (Original) An active matrix display device according to claim 23, wherein said display device, said sensor, said CPU, and said voltage changer are formed over a same substrate.

25. (Previously Presented) An active matrix display device according to claim 23, further comprising an A/D (analog-to-digital) converter interposed between said sensor and said CPU, and a D/A (digital-to-analog) converter interposed between said CPU and said voltage changer.

26. (Previously Presented) An active matrix display device according to claim 23, wherein said sensor comprises a CCD (charge-coupled device) or a photo-diode.

27. (Original) An active matrix display device according to claim 23, wherein said information signal comprises a user's living-body information.

28. (Previously Presented) An active matrix display device according to claim 23, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, an image reproduction apparatus, a car audio equipment, and a personal computer.

29. (Currently Amended) An active matrix display device comprising:
a voltage changer;
a sensor for obtaining an information signal of an environment; and
a plurality of pixels, each of said plurality of pixels comprising:

at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a gate insulating film interposed therebetween; and

an EL (electro-luminescent) element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer,

wherein:

a potential of the one of said anode and said cathode that is not connected to said active layer is controlled by a corrected potential converted from said information signal,

said voltage changer is electrically connected to said EL element of each of said plurality of pixels via a switch, and an EL driving power source is connected to said voltage changer.

~~said switch is turned off during an addressing period and is turned on during a sustaining period.~~

30. (Original) An active matrix display device according to claim 29, wherein said display device and said sensor are formed over a same substrate.

31. (Previously Presented) An active matrix display device according to claim 29, wherein said sensor comprises a CCD (charge-coupled device) or a photo-diode.

32. (Original) An active matrix display device according to claim 29, wherein said information signal comprises a user's living-body information.

33. (Previously Presented) An active matrix display device according to claim 29, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, an image reproduction apparatus, a car audio equipment, and a personal computer.

34. (Currently Amended) An active matrix display device comprising:

a voltage changer;

a sensor for obtaining an information signal of an environment; and

a plurality of pixels, each of said plurality of pixels comprising:

at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a gate insulating film interposed therebetween;

an EL (electro-luminescent) element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer; and

a CPU (computer processing unit) for converting said information signal to a corrected signal,

wherein:

a potential of the one of said anode and said cathode that is not connected to said active layer is controlled based on said corrected signal,

said voltage changer is electrically connected to said EL element of each of said plurality of pixels via a switch, and an EL driving power source is connected to said voltage changer.

~~said switch is turned off during an addressing period and is turned on during a sustaining period.~~

35. (Original) An active matrix display device according to claim 34, wherein said display device, said sensor, said CPU, and said voltage changer are formed over a same substrate.

36. (Previously Presented) An active matrix display device according to claim 34, further comprising an A/D (analog-to-digital) converter interposed between said sensor and said CPU, and a D/A (digital-to-analog) converter interposed between said CPU and said voltage changer.

37. (Previously Presented) An active matrix display device according to claim 34, wherein said sensor comprises a CCD (charge-coupled device) or a photo-diode.

38. (Original) An active matrix display device according to claim 34, wherein said information signal comprises a user's living-body information.

39. (Previously Presented) An active matrix display device according to claim 34, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, an image reproduction apparatus, a car audio equipment, and a personal computer.